

# Notice of Allowability

Application No.

10/695,909

Examiner

Jack Dinh

Applicant(s)

IIKAWA ET AL.

Art Unit

2873

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/30/04.
2. ☒ The allowed claim(s) is/are 1-9.
3. ☒ The drawings filed on 30 October 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

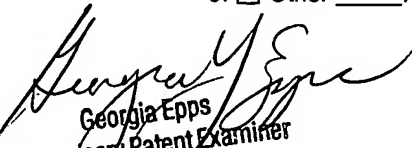
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 0104
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

  
Georgia Epps  
Supervisory Patent Examiner  
Technology Center 2800  
Notice of Allowability

### REASONS FOR ALLOWANCE

1. Claims 1-9 are allowed. The following is a statement of the examiner's reasons for allowance. The present invention relates to a cam mechanism which includes a cam ring on which at least one cam rib is formed and which can be used in a lens barrel or photographing lens of a camera. More specifically, the present invention relates to a cam rib support structure which supports each cam rib by an associated pair of cam followers formed on a follower ring which is provided concentrically with the cam ring. Regarding claim 1, the prior art alone or in combination fails to disclose or suggest that wherein upon the cam ring and the follower ring being engaged with each other in an assembly process thereof, an inner cam follower of the pair of cam followers firstly approaches one of opposite ends of the cam rib in a lengthwise direction thereof, and an outer cam follower of the pair of cam followers subsequently approaches the opposite ends of the cam rib, and wherein a portion of the outer cam follower is extended outwards from a position of a peripheral surface of the inner cam follower in a circumferential direction of the follower ring. Regarding claim 9, the prior art alone or in combination fails to disclose or suggest that the pair of cam followers are positioned to be symmetrical to a center line extending parallel to an axis of the follower ring, and wherein upon the cam ring and the follower ring being engaged with each other in an assembly process thereof, a circumferential width of one of the pair of cam followers which firstly approaches one of opposite ends of the cam rib in a lengthwise direction thereof is smaller than a circumferential width of the other of the pair of cam followers which subsequently approaches the one of the opposite ends of the cam

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rib. The claimed invention is therefore considered to be in condition for allowance as being novel and non-obvious over prior art.

2. The prior art taken either singly or in combination fails to anticipate or fairly suggest the limitations of the independent claims, in such a manner that a rejection under 35 USC 102 or 103 would be improper. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Other Information/Remarks***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Iikawa et al. (U.S. Patent 6,631,035), Nomura et al. (U.S. Patent 6,661,586), and Iikawa et al. (U.S. Patent 6,747,807) discloses similar cam mechanisms comprising cam and follower ring.


4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Dinh whose telephone number is 571-272-2327. The examiner can normally be reached on M-F (9:30 AM - 6:00 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jack Dinh

  
Georgia Epps  
Supervisory Patent Examiner  
Technology Center 2800